



Phenotype	Frequency of recombined clones
MDS/MPD	82% (9/11)
MPD	100% (22/22)
AML	100% (15/15)

Figure S3. Characterization of *Dnmt3a*^{R878H/+} *Npm1*^{cA/+} MDS/MPD and MPD. (A) Frequency of myeloid, B and T cells within the donor-derived CD45.2⁺ fraction in PB and (B) Gr-1⁺ and Gr-1⁻ cells within donor-derived myeloid PB of moribund mice (control, *n* = 3; cA/+ MPD, *n* = 2; R878H/+ cA/+ MDS/MPD, *n* = 6; R878H/+ cA/+ MPD, *n* = 3). (C) Representative Giemsa-stained BM cytopsin (far left; 40X, scale bars are 40um) and H&E-stained spleen (center; 4X, scale bars are 100um) and liver sections (far right; 4X, scale bars are 100um) from moribund recipient mice transplanted with control, cA/+ only or R878H/+ cA/+ BM cells. (D) Spleen weights of moribund mice (control, *n* = 3; cA/+ MPD, *n* = 2; R878H/+ cA/+ MDS/MPD, *n* = 6; R878H/+ cA/+ MPD, *n* = 3). (E) Frequency of myeloid, B and T cells within the donor-derived CD45.2⁺ fraction in PB and (F) Gr-1⁺ and Gr-1⁻ cells within donor-derived myeloid PB of moribund mice (control, *n* = 3; cA/+ MPD, *n* = 2; R878H/+ cA/+ MDS/MPD, *n* = 10; R878H/+ cA/+ MPD, *n* = 3). (G) Representative gel images and summary of PCR genotyping of single CFU colonies derived from BM of R878H/+ cA/+ mice showing wild-type (WT), non-recombined fl-R878H or frt-cA, and recombined R878H or cA alleles. C: non-recombined control, H: water only control.